



## 2023 FIVE YEAR MOVING AVERAGE STATUSREPORT

June, 2023

MEMBER	Fractional Share of the Contribution ("Percent Share")						5 Year Moving Average	
	MEASURING YEAR (Oct-Sep)						Current Average (2)	Previous Average (3)
	2018	2019	2020	2021	2022	2023 (1)		
Clark	10.17%	8.33%	8.02%	7.49%	7.88%	6.06%	7.56%	8.38%
Cranford	7.25%	9.95%	11.08%	11.79%	10.19%	9.77%	10.55%	10.05%
Garwood	2.74%	2.33%	2.22%	2.23%	3.19%	4.03%	2.80%	2.54%
Kenilworth	4.09%	5.30%	3.62%	3.59%	3.62%	3.84%	4.00%	4.04%
Mountainside	3.68%	2.90%	2.44%	2.35%	2.71%	2.77%	2.63%	2.82%
Rahway	14.04%	18.01%	22.27%	21.64%	17.77%	17.87%	19.51%	18.75%
Roselle Park	0.84%	1.61%	2.08%	1.73%	0.87%	1.23%	1.50%	1.42%
Scotch Plains	5.88%	4.56%	4.23%	3.86%	4.01%	4.43%	4.22%	4.51%
Springfield	9.28%	9.28%	9.25%	9.20%	10.34%	10.67%	9.75%	9.47%
Westfield	14.79%	15.64%	14.32%	14.46%	15.74%	15.29%	15.09%	14.99%
Woodbridge	27.24%	22.09%	20.47%	21.66%	23.68%	24.04%	22.39%	23.03%
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Notes:

- (1) Figures computed based on Flow, BOD and TSS data received as of reporting month.
- (2) Five year moving average consisting of 2019, 2020, 2021, 2022, and month to date for 2023
- (3) Five year moving average consisting of 2018, 2019, 2020, 2021, and 2022



## 2023 Town Annual Percent Share

June, 2023

Member	Average Daily Flow (MGD)		Biochemical Oxygen Demand (Tons/Day)		Total Suspended Solids (Tons/Day)		Annual Percent Share	
	2022	2023	2022	2023	2022	2023	2022	2023
Clark	1.49	1.19	1.38	1.25	1.20	1.16	7.88%	6.06%
Cranford	2.54	2.55	1.57	1.54	1.87	1.92	10.19%	9.77%
Garwood	0.76	1.01	0.47	0.66	0.56	0.80	3.19%	4.03%
Kenilworth	0.85	0.95	0.53	0.63	0.63	0.77	3.62%	3.84%
Mountainside	0.67	0.72	0.42	0.44	0.50	0.54	2.71%	2.77%
Rahway	4.08	4.30	2.63	2.99	3.11	3.60	17.77%	17.87%
Roselle Park	0.20	0.30	0.13	0.20	0.17	0.25	0.87%	1.23%
Scotch Plains	1.01	1.16	0.62	0.70	0.74	0.87	4.01%	4.43%
Springfield	2.45	2.67	1.53	1.74	1.82	2.12	10.34%	10.67%
Westfield	3.50	3.60	2.17	2.59	2.58	3.11	15.74%	15.29%
Woodbridge (1)(2)	5.64	6.00	3.81	3.88	4.55	4.84	23.68%	24.04%
<b>Totals:</b>	<b>23.20</b>	<b>24.44</b>	<b>15.26</b>	<b>16.62</b>	<b>17.73</b>	<b>19.98</b>	<b>100.00%</b>	<b>100.00%</b>

**Equations:**

Assumptions: 200 gpd flow per unit at 200 mg/L BOD and TSS concentrations

- (a) Flow Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD)
- (b) BOD Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)
- (c) TSS Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

**Notes:**

- (1) Woodbridge MGD Adjustment includes a 0.50 MGD flow credit, per section 11.5 of the 2021 Agreement
- (2) Woodbridge BOD and TSS Adjustment includes a 833 lbs/day credit, per section 11.5 of the 2021 Agreement



## 2023 Intermunicipal Adjustments Report

June, 2023

Member	Dwelling Unit Quantity			Average Daily Flow (MGD)			Average BOD (Tons/Day)			Average TSS (Tons/Day)		
	Bill To	Credit To	Total Adjustment	Average Flow	Adjustment (a)	Final Flow	Average BOD	Adjustment (b)	Final BOD	Average TSS	Adjustment (c)	Final TSS
Clark	479	0	479	1.09	0.0958	1.19	1.17	0.0799	1.25	1.08	0.0799	1.16
Cranford	242	1,092	-850	2.72	-0.1700	2.55	1.68	-0.1418	1.54	2.06	-0.1418	1.92
Garwood	54	110	-56	1.02	-0.0112	1.01	0.67	-0.0093	0.66	0.81	-0.0093	0.80
Kenilworth	62	38	24	0.94	0.0048	0.95	0.63	0.0040	0.63	0.77	0.0040	0.77
Mountainside	106	339	-233	0.77	-0.0466	0.72	0.48	-0.0389	0.44	0.58	-0.0389	0.54
Rahway	13	15	-2	4.30	-0.0004	4.30	2.99	-0.0003	2.99	3.60	-0.0003	3.60
Roselle Park	38	117	-79	0.32	-0.0158	0.30	0.21	-0.0132	0.20	0.26	-0.0132	0.25
Scotch Plains	66	413	-347	1.22	-0.0694	1.16	0.76	-0.0579	0.70	0.93	-0.0579	0.87
Springfield	0	187	-187	2.71	-0.0374	2.67	1.77	-0.0312	1.74	2.15	-0.0312	2.12
Westfield	1,425	175	1,250	3.35	0.2500	3.60	2.38	0.2085	2.59	2.90	0.2085	3.11
Woodbridge (1)(2)	10	9	1	6.50	-0.4998	6.00	4.30	-0.4163	3.88	5.26	-0.4163	4.84
<b>Totals:</b>	2,495	2,495	0	24.94	-0.5000	24.44	17.04	-0.4165	16.62	20.40	-0.4165	19.98

**Equations:**

Assumptions: 200 gpd flow per unit at 200 mg/L BOD and TSS concentrations

- (a) Flow Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD)
- (b) BOD Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)
- (c) TSS Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

**Notes:**

- (1) Woodbridge MGD Adjustment includes a 0.50 MGD flow credit, per section 11.5 of the 2021 Agreement
- (2) Woodbridge BOD and TSS Adjustment includes a 833 lbs/day credit, per section 11.5 of the 2021 Agreement



## Member BOD and TSS Loading Contribution

June, 2023

Member	Average Daily Industrial Loading (1)		Average Daily Flow (MGD)	Inter-Mun Adj (2) (MGD)	Adj. Avg. Daily Flow (MGD)	Member Contribution			
	BOD (Tons/Day)	TSS (Tons/Day)				Domestic Loading		Total Loading	
						BOD (Tons/Day)	TSS (Tons/Day)	BOD (Tons/Day)	TSS (Tons/Day)
Clark	0.39	0.12	1.09	0.0958	1.19	0.78	0.96	1.17	1.08
Cranford	0.00	0.00	2.72	-0.1700	2.55	1.68	2.06	1.68	2.06
Garwood	0.00	0.00	1.02	-0.0112	1.01	0.67	0.81	0.67	0.81
Kenilworth	0.00	0.00	0.94	0.0048	0.95	0.63	0.77	0.63	0.77
Mountainside	0.00	0.00	0.77	-0.0466	0.72	0.48	0.58	0.48	0.58
Rahway	0.15	0.13	4.30	-0.0004	4.30	2.84	3.47	2.99	3.60
Roselle Park	0.01	0.01	0.32	-0.0158	0.30	0.20	0.25	0.21	0.26
Scotch Plains	0.00	0.00	1.22	-0.0694	1.16	0.76	0.93	0.76	0.93
Springfield	0.00	0.00	2.71	-0.0374	2.67	1.77	2.15	1.77	2.15
Westfield	0.00	0.00	3.35	0.2500	3.60	2.38	2.90	2.38	2.90
Woodbridge	0.00	0.01	6.50	0.0002	6.50	4.30	5.25	4.30	5.26
<b>Totals:</b>	<b>0.55</b>	<b>0.27</b>	<b>24.94</b>	<b>0.00</b>	<b>24.94</b>	<b>16.50</b>	<b>20.12</b>	<b>17.04</b>	<b>20.40</b>

Notes:

- (1) As measured and reported by the RVSA SIU IPP Industrial Loading
- (2) Does not include the 0.50 MGD Woodbridge Credit



## 2023 Plant Influent Loading June, 2023

2022			2023									Average T/D
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	

**Plant Influent Flow and Sample Data**

Avg. Daily Flow (MGD) (1)	23.31	21.29	27.71	29.9	22.31	27.81	24.01	27.7	19.84				24.87
Avg. BOD (mg/L) (2)	164	189	160	149	173	143	176	155	188				166
Avg. TSS (mg/L) (2)	187	235	197	188	192	166	196	192	234				199

**Total Influent Loading (a)(b)**

BOD (Tons/Day)	15.94	16.78	18.49	18.58	16.09	16.58	17.62	17.93	15.55				17.06
TSS (Tons/Day)	18.18	20.86	22.76	23.44	17.86	19.25	19.62	22.18	19.36				20.39

**Total Industrial Contribution (3)**

IPP BOD (Tons/Day)	0.57
IPP TSS (Tons/Day)	0.27

**Total Domestic Influent Loading**

BOD (Tons/Day)	16.50
TSS (Tons/Day)	20.12

**Equations:**

(a)  $BOD\ Loading\ (Tons/Day) = Average\ Daily\ Flow\ (MGD) \times Avg\ BOD\ (mg/L) \times (8.34\ lbs/gal) / (2000\ lbs/ton)$

(b)  $TSS\ Loading\ (Tons/Day) = Average\ Daily\ Flow\ (MGD) \times Avg\ TSS\ (mg/L) \times (8.34\ lbs/gal) / (2000\ lbs/ton)$

**Notes:**

(1) Average Daily Flow = RV12 + RV14 + RV31

(2) BOD and TSS Concentrations measured at the RVSA Raw Influent Sampler as reported to the NJDEP

(3) As measured and reported by the RVSA SIU IPP Industrial Loading



## 2023 Average Daily Flow Report June, 2023

Meter #	2022			2023									Average To Date
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
RV01	2.21	2.21	2.67	2.97	2.67	3.10	2.88	3.14	2.50				2.71
RV02	3.11	3.01	3.89	4.12	3.77	4.24	3.82	4.32	3.48				3.75
RV03	1.45	1.41	1.88	1.97	1.56	1.99	1.74	2.07	1.44				1.72
RV04	0.24	0.19	0.26	0.27	0.21	0.27	0.19	0.24	0.18				0.23
RV05	0.26	0.22	0.29	0.30	0.20	0.26	0.24	0.30	0.22				0.25
RV06	0.15	0.14	0.20	0.18	0.13	0.16	0.14	0.55	0.37				0.23
RV07	0.68	0.61	0.65	0.69	0.66	0.76	0.64	0.75	0.55				0.66
RV09	3.54	3.20	4.27	4.67	3.70	4.56	3.87	3.95	2.96				3.86
RV10	7.33	6.78	8.99	9.61	7.92	9.42	8.51	10.45	7.62				8.52
RV11	11.40	10.47	14.31	15.49	12.07	15.27	12.70	14.70	10.74				13.02
RV12	5.31	4.47	6.04	6.69	4.92	5.98	5.29	6.53	4.89				5.57
RV13	0.65	0.58	0.55	0.59	0.64	0.83	0.70	0.80	0.52				0.65
RV14	17.93	16.73	21.45	22.78	17.17	21.60	18.07	20.37	14.85				18.99
RV15	0.92	0.63	1.09	1.27	0.73	1.18	0.91	0.97	0.53				0.91
RV16A	23.40	21.39	27.84	29.94	22.35	27.90	24.31	27.73	20.08				24.99
RV17	0.46	0.43	0.49	0.50	0.40	0.47	0.42	0.43	0.34				0.44
RV18	0.82	0.82	0.93	0.99	0.85	0.98	0.91	0.90	0.82				0.89
RV19	0.32	0.31	0.37	0.37	0.32	0.36	0.33	0.33	0.28				0.33
RV20	0.70	0.72	0.82	0.84	0.76	0.80	0.76	0.82	0.67				0.77
RV27	0.19	0.00	0.00	0.69	0.00	0.32	1.21	1.38	0.00				0.42
RV28	0.16	0.00	0.25	0.11	0.00	0.27	0.17	0.16	0.00				0.12
RV29	1.20	1.18	1.29	1.36	1.22	1.33	1.18	1.40	1.05				1.25
RV30	0.25	0.23	0.26	0.27	0.26	0.29	0.27	0.30	0.24				0.26
RV31	0.07	0.09	0.22	0.43	0.22	0.24	0.65	0.80	0.10				0.31
RV32	5.82	5.30	6.41	6.83	5.24	6.44	5.50	5.65	4.19				5.71



# 2023 Average Industrial TSS Loading Report

June, 2023

Town	SIU Name	Average Daily TSS Loading (Tons/Day)											Average T/D	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		Sep
Clark	Kerry 1	0.016	0.096	0.002	0.014	0.006	0.006	0.003	0.016					0.0199
	Kerry 2	0.011	0.001	0.009	0.003	0.005	0.005	0.007	0.002					0.0054
	Kerry 3	0.016	0.021	0.012	0.033	0.007	0.018	0.018	0.008					0.0166
	Kerry 4	0.008	0.028	0.051	0.139	0.289	0.041	0.049	0.013					0.0773
<b>Clark Total:</b>													<b>0.119</b>	
Kenilworth	B&M Finishers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					0.0000
	Kenilworth Anodizing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					0.0000
<b>Kenilworth Total:</b>													<b>0.000</b>	
Mountainside	American Aluminum	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001					0.0011
<b>Mountainside Total:</b>													<b>0.001</b>	
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.003	0.004	0.004	0.002	0.005	0.004	0.001	0.007					0.0038
	Guest Packaging 03	0.001	0.002	0.000	0.000	0.001	0.000	0.002	0.001					0.0009
	Merck 007	0.033	0.092	0.076	0.066	0.172	0.030	0.010	0.001					0.0600
	Merck 012	0.013	0.011	0.004	0.001	0.015	0.027	0.047	0.127					0.0306
	Quala Systems	0.018		0.009	0.031	0.015	0.044	0.003	0.023					0.0204
	Suez Water Rahway	0.007	0.001	0.001	0.001	0.014	0.001	0.002	0.066					0.0116
<b>Rahway Total:</b>													<b>0.127</b>	
Roselle Park	Crossfield Products		0.000		0.003			0.003						0.0020
	Merck Kenilworth	0.009	0.014	0.006	0.009	0.012	0.011	0.012	0.013					0.0108
<b>Roselle Park Total:</b>													<b>0.013</b>	
Springfield	Valcor Engineering	0.004	0.000	0.000	0.000	0.004	0.001	0.001	0.001					0.0014
<b>Springfield Total:</b>													<b>0.001</b>	
Woodbridge	BASF 1	0.000	0.002	0.003	0.002	0.001	0.002	0.001	0.003					0.0018
	BASF 2	0.001	0.002	0.005	0.001	0.006	0.004	0.006	0.003					0.0035
	Gentek Building Products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					0.0000
<b>Woodbridge Total:</b>													<b>0.005</b>	

Note: Municipalities without Significant Industrial Users ("SIU") are excluded from this report.



## 2023 Average Industrial BOD Loading Report

June, 2023

Town	SIU Name	Average Daily BOD Loading (Tons/Day)											Average T/D	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		Sep
Clark	Kerry 1	0.005	0.032	0.001	0.003	0.001	0.001	0.000	0.001					0.0055
	Kerry 2	0.031	0.023	0.046	0.021	0.039	0.177	0.007	0.025					0.0461
	Kerry 3	0.161	0.120	0.188	0.148	0.038	0.164	0.099	0.056					0.1218
	Kerry 4	0.209	0.093	0.193	0.291	0.432	0.147	0.224	0.167					0.2195
<b>Clark Total:</b>													<b>0.393</b>	
Kenilworth	B&M Finishers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					0.0000
	Kenilworth Anodizing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000					0.0000
<b>Kenilworth Total:</b>													<b>0.000</b>	
Mountainside	American Aluminum	0.002	0.001	0.000	0.001	0.001	0.003	0.001	0.001					0.0013
<b>Mountainside Total:</b>													<b>0.001</b>	
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.010	0.006	0.009	0.012	0.010	0.017	0.003	0.031					0.0123
	Guest Packaging 03	0.003	0.007	0.004	0.003	0.003	0.002	0.004	0.005					0.0039
	Merck 007	0.015	0.021	0.028	0.036	0.024	0.004	0.003	0.000					0.0164
	Merck 012	0.019	0.005	0.003	0.002	0.003	0.007	0.017	0.045					0.0126
	Quala Systems	0.101		0.051	0.261	0.063	0.121	0.040	0.102					0.1056
	Suez Water Rahway	0.001	0.004	0.003	0.000	0.005	0.001	0.005	0.006					0.0031
<b>Rahway Total:</b>													<b>0.154</b>	
Roselle Park	Crossfield Products		0.001		0.000			0.008						0.0030
	Merck Kenilworth	0.010	0.009	0.008	0.009	0.006	0.009	0.010	0.008					0.0086
<b>Roselle Park Total:</b>													<b>0.012</b>	
Springfield	Valcor Engineering	0.006	0.001	0.001	0.000	0.004	0.003	0.003	0.002					0.0025
<b>Springfield Total:</b>													<b>0.003</b>	
Woodbridge	BASF 1	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.002					0.0010
	BASF 2	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.002					0.0014
	Gentek Building Products	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000					0.0001
<b>Woodbridge Total:</b>													<b>0.003</b>	

Note: Municipalities without Significant Industrial Users ("SIU") are excluded from this report.